

Date: Sun, 19 Sep 93 00:39:22 PDT
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>
Errors-To: Info-Hams-Errors@UCSD.Edu
Reply-To: Info-Hams@UCSD.Edu
Precedence: Bulk
Subject: Info-Hams Digest V93 #1114
To: Info-Hams

Info-Hams Digest Sun, 19 Sep 93 Volume 93 : Issue 1114

Today's Topics:

 Antenna Covenants AGAIN (but now with a twist!)
 Anyone done mods to Kenwood TH-78A ??
 Boulder Hamfest
Daily Solar Geophysical Data Broadcast for 18 September
 HTX reports
 RS 2m HT
VK2SG RTTY DX Notes, 17 September
 Who Wrote Scratchi?
 writing speed

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: 19 Sep 1993 04:33:28 GMT
From: library.ucla.edu!agate!spool.mu.edu!darwin.sura.net!news-
feed-2.peachnet.edu!hobbes.cc.uga.edu!aisun3.ai.uga.edu!mcovingt@network.ucsd.edu
Subject: Antenna Covenants AGAIN (but now with a twist!)
To: info-hams@ucsd.edu

In article <1993Sep17.204130.16148@cyphyn.radnet.com> randy@cyphyn.radnet.com
(Randy) writes:
>dstock@hpbqoca.sqf.hp.com (David Stockton) writes:

>: Visit a showhouse or two, and in passing, enquire about restrictions
>: on external antennae etc. If you don't like the reply, just say, "Oh
>: Well, that rules this place out then,..." don't lose your temper just
>: look like a good prospect of a sale that walked out.

>: <-----***
>: Let's give 'em the idea they're losing sales
>: and allow them to assume they're losing money.
>
>This is TOO good to delete any part of it!
>RIGHT ON! E X A C T L Y !

Hear, hear! It's also a good way to deal with weird covenants of any other sort. Sooner or later these folks will realize that the yuppie era is dead and we're not going to pay extra to be restricted!

Around here the best local appraiser happens to be a ham... that helps, too!

--
:- Michael A. Covington, Associate Research Scientist : *****
:- Artificial Intelligence Programs mcovingt@ai.uga.edu : *****
:- The University of Georgia phone 706 542-0358 : * * *
:- Athens, Georgia 30602-7415 U.S.A. amateur radio N4TMI : ** *** ** <><

Date: Fri, 17 Sep 1993 15:41:47 GMT
From: dog.ee.lbl.gov!agate!spool.mu.edu!sol.ctr.columbia.edu!news.kei.com!
news.oc.com!merlin.etsu.edu!talon@network.ucsd.edu
Subject: Anyone done mods to Kenwood TH-78A ??
To: info-hams@ucsd.edu

Bob Powers (bob@ia-ngnet.army.mil) wrote:

> news-mail-gateway@ucsd.edu said:

> >

> > In an article, [pierce@ames.arpa] writes: o: info-hams@ucsd.edu

> >

> > >Has anyone done extended receive and transmit mod. to a Kenwood TH-78A?

> >

> > >Thanks, Terry

> > >KC5???

> >

> >

> > I did the mod to my 78A over a year ago removing 2 SMD diodes, it
> > worked fine, but I don't think that is the mod you want.

> >

The only thing about the mods is that the automagic repeater offset (+ or -) does not function anymore. A small price to pay.....

--

David Fox (KB5ULK) |Disclaimer: My words or actions
President, Radio East Texas State University|are not the official words or
Internet: talon@wizard.etsu.edu |actions of the University or of
talon@merlin.etsu.edu |Radio East Texas State University,
s8623f@etsuv2.etsu.edu |unless, of course, there was a
2m band: 147.02, 146.78, 146.52 Mhz. |vote!!! :)

"Treat your airplane like a woman. Get inside her and take her to heaven
and back, five times a day!! WOOF WOOF!" - Lord Flasheart, from Blackadder IV

"Set bazookoids to kill, stuff, and mount!"-Dave Lister, from Red Dwarf

Date: Sun, 19 Sep 93 03:42:29 GMT
From: mnemosyne.cs.du.edu!nyx!mcaffrey@uunet.uu.net
Subject: Boulder Hamfest
To: info-hams@ucsd.edu

The Boulder Amateur Radio Club will be holding its annual Hamfest at the
Boulder County Fairgrounds, off Hover Road in Longmont, CO. The time is
from 8-1 on Sunday, September 26.

Things of interest:
Door prizes include a computer and a Kenwood TS-50
Seminar includes a forum on youngsters in ham radio. Definitely of
interest for children, or those with children.

As in past years, there will be lots of dealers for both computer
equipment and ham equipment.

Admission \$3.

For more information, e-mail mcaffrey@nyx.cs.du.edu.

Mark, KF0JA

Date: 19 Sep 93 05:05:14 GMT
From: news-mail-gateway@ucsd.edu
Subject: Daily Solar Geophysical Data Broadcast for 18 September
To: info-hams@ucsd.edu

!!BEGIN!! (1.0) S.T.D. Solar Geophysical Data Broadcast for DAY 261, 09/18/93
10.7 FLUX=085.2 90-AVG=095 SSN=052 BKI=0213 0100 BAI=003
BGND-XRAY=A4.5 FLU1=1.7E+06 FLU10=1.5E+04 PKI=2223 1111 PAI=005

BOU-DEV=002,012,008,032,004,005,003,002 DEV-AVG=008 NT SWF=00:000
 XRAY-MAX= B7.5 @ 0913UT XRAY-MIN= A4.1 @ 1948UT XRAY-AVG= A7.7
 NEUTN-MAX= +003% @ 1655UT NEUTN-MIN= -002% @ 1915UT NEUTN-AVG= +0.5%
 PCA-MAX= +0.1DB @ 1510UT PCA-MIN= -0.4DB @ 2040UT PCA-AVG= -0.0DB
 BOUTF-MAX=55367NT @ 1311UT BOUTF-MIN=55343NT @ 1724UT BOUTF-AVG=55358NT
 GOES7-MAX=P:+000NT@ 0000UT GOES7-MIN=N:+000NT@ 0000UT G7-AVG=+083,+000,+000
 GOES6-MAX=P:+123NT@ 0524UT GOES6-MIN=N:-063NT@ 1442UT G6-AVG=+102,-015,-043
 FLUXFCST=STD:085,090,090;SESC:085,090,090 BAI/PAI-FCST=005,010,010/012,012,010
 KFCST=1122 2111 2234 4222 27DAY-AP=006,005 27DAY-KP=1223 1122 3111 1211
 WARNINGS=
 ALERTS=
 !!END-DATA!!

NOTE: The Effective Sunspot Number for 17 SEP 93 is not available.
 The Full Kp Indices for 17 SEP 93 are not available.

 Date: Fri, 17 Sep 1993 14:23:05 -0500
 From: dog.ee.lbl.gov!agate!spool.mu.edu!wupost!udel!news.intercon.com!
 babar.dial.intercon.com@network.ucsd.edu
 Subject: HTX reports
 To: info-hams@ucsd.edu

In article <930916121038.3ec7@MAR65.MAR.ORA.FDA.GOV>,
 O'DONNELL@MAR65.MAR.ORA.FDA.GOV writes:

>
 > >Where is the HTX- HT made ?
 >
 > >The HTX-202 and 404 were designed by Tandy's engineers and are made
 > >for Tandy by supplier(s) that they will not identify. The 202 is made
 > >in Korea; I haven't looked at the 404 so I don't know if it's from the
 > >same
 >
 > They both say the same thing on the back:
 > "Custom manufactured in Korea for Radio Shack."

When I worked at the Shack in another life, I had a firm and fast policy of
 telling customers the identities of the real manufacturers of any product for
 which I knew the information. Sometimes they (and I, for that matter) were
 quite surprised to find out who really made things.

One useful resource for tracking down manufacturers is the back of the "Store
 Operating Manual". In the back is a section with what is basically a cross
 reference of original manufacturers' contact information, mainly intended for
 emergencies with chemical products, etc, but also quite complete for
 electronic equipment. I don't know if such a reference still exists, but 3

years ago, when I worked for the Shack, it was a godsend. It often made the difference in whether *I* would buy a given piece of hardware.

Bob Stratton
<strat@intercon.com>
PGP and RIPEM public keys available via FINGER,
the PGP key servers, or upon request.

Date: Fri, 17 Sep 1993 18:45:10 GMT
From: swrinde!gatech!mailer.cc.fsu.edu!freenet.scri.fsu.edu!
bischoff@network.ucsd.edu
Subject: RS 2m HT
To: info-hams@ucsd.edu

I just bought a 2m HT from RS - hard to beat that price! I'm pretty sure, based on earlier postings on this group, that I can use one or more Icom battery packs with this set. Could someone please let me know which Icom models I can switch out the batteries on. Thanks in advance.

--[Bill]--
--[NK40]--

Date: Fri, 17 Sep 93 14:30:55 GMT
From: dog.ee.lbl.gov!agate!usenet.ins.cwru.edu!magnus.acs.ohio-state.edu!cis.ohio-state.edu!mstar!n8emr!bulletin@network.ucsd.edu
Subject: VK2SG RTTY DX Notes, 17 September
To: info-hams@ucsd.edu

=====
| Automatic relayed from packet radio via |
| N8EMR's Ham BBS, 614-895-2553 |
=====

SB DX @ ALLBBS \$RTDX0917
VK2SG RTTY DX Notes, 17 September
VK2SG RTTY DX Notes for week ending 17 September 1993 (BID RTDX0917)

Two big RTTY weekends are upon us. Mellish Reef is due up this weekend, and next weekend is "the Really Big" RTTY contest. Pray for good propagation. See Notes below.

Our information this week came from 9X5LJ, CE3GDN, DJ3IW and the

Central Europe DX-Cluster Node DB0SPC, I5FLN, I5ICY, IK1HSR, KE6XJ, WB2CJL, ZS5S, the NJ0M Node of the Twin Cities DX Packet Cluster Network, and QRZ DX. Thanks to all for your assistance.

Bandpass:

Friday 10

0111-14084 C06RR
0327-14085 ZL3AFT QSL AA5GS
0555-14085 ZC4EPI
0602-14085 ZC4ST
0616-14087 EA6MQ
1241-14083 C21/KC6DX QSL JA2NVY
1307-14086 VK6HD
1341-14084 BY1QH
1416-14087 A45XC
1507-14087 FR5DX
1533-14082 VU2RAK
1805-14084 HL9KU
1859-14087 ZC4EPI
1935-14088 EA8WG
1950-14088 Z32JA
2109-14090 9H1EL QSL LA2T0
2141-14087 FM5GN
2345-14088 HK0DPA

Saturday 11

0027-14088 NP2EG
0346-14090 UA9CCV
0355-14084 F05EM
0555-14085 ZC3EPI
0623-14084 SV2WT
1047-14097 Z32JA
1335-14090 UZ9CW
1400-14083 ZC4ST
1415-14082 VK6HD
1443-21089 ZS9A
1500-14084 9V1UD
1501-14091 UA9FGJ
1940-21085 HJ4SAN
2043-14084 9G1XA

Sunday 12

0239-14085 VR6BX
0341-14086 ZL3AFT
0748-14087 UC20S
0807-14090 VE8EV
1000-21085 TR8XX

1340-14089 HP1XVI
1620-14085 XT2BW
1702-21087 5R8DG
2201-21085 HJ4SAN for prefix
2320-14087 VK6HD
2322-14090 FG5GH

Monday 13

0032-14085 YV5KAJ
0045-14085 F05EM
0124-14088 HK3CAA
0126-14087 PZ1BS

Tuesday 14

1349-14086 HI8BG
1418-14086 EA6MO
1423-14089 JT1CS
1432-14085 HB0/HB9NL
1447-14088 C06RR
1628-14088 UC20S
1711-14090 VQ9RW

Wednesday 15

1155-14090 TK5QW
1649-14081 ZS6EZ
2103-14085 PZ1BS
2338-14087 HK0DPA
2353-14085 C06RR

Thursday 16

1257-14084 FG4FI
1304-14086 UA1JZD
1404-14085 UV9US
1413-14087 RW3PF

Notes of Interest:

This Sunday, the 19th, should see the start of the 10 day Mellish Reef Expedition, VK9??. Look for them to be operating split on 14080 or 21080 KHz. QSL to VK4CRR with a SAE and return postage.

Next weekend brings the year's most popular RTTY contest. The CQ/RTTY Journal WW RTTY Contest runs from 0000Z 25 Sept-2400Z 26 Sept. For details see the RTTY Journal, July/August P.6, CQ Sept P.120, or QST Sept P.115.

Some special RTTY contest operations: Look for 3D2VY, in Fiji, by a

group of Japanese operators. QSL to JR2KDN. Also expect some heavy activity from West Kiribati by T30RA, Bob KN6J; T30RS, Bob N6OXR; and T30GV, Glenn W6OTC. QSL to their home CBA. A multioperator effort, led by Jack, WA7LNW, is planned from PJ8X in Sint Maarten. QSL to KE7LZ. Pete, K8UNP/C6A will be active from the Bahamas in the contest, and afterwards until 1 October. QSL to his home CBA.

East Kiribati, T32 - From 27 September to 4 October, KN6J and N6OXR will be active as T32RA and T32RS respectively. QSL to home CBA.

Mount Athos, SV/A - Nikos, SV2WT, advised Luciano, I5FLN, that Apollo, SV2ASP/A, is again QRT from RTTY due to laptop screen problems.

Send your Bandpass and Notes of Interest for next week's bulletin to Luciano, I5FLN @ ZS5S.ZAF.AF, or I5FLN @ 9X5LJ.#KGL.RWA.AF.

73 ES Good Hunting DE Jules W2JGR @ CE3GDN.#STGO.CHL.SA.
/EX
SP KT7H @ N7DUO.WA.USA.NA

Date: Fri, 17 Sep 93 16:15:37 GMT
From: butch!rapnet!news@uunet.uu.net
Subject: Who Wrote Scratchi?
To: info-hams@ucsd.edu

In article <CDGp8t.8z4@srngenprp.sr.hp.com> donrm@sr.hp.com (Don Montgomery) writes:

>From: donrm@sr.hp.com (Don Montgomery)
>Subject: Who Wrote Scratchi?
>Date: Thu, 16 Sep 1993 19:38:52 GMT

>Does anyone know who wrote the "SCRATCHI" column in the old CQ
>magazine? (This was back in the days when Wayne Green was editor).

>Is there even anyone out there old enough to even remember Scratchi?

>For the uninitiated, Hashafisti Scratchi was a fictitious character
>that was always coming up with weird solutions to ham radio problems -
>such as the time Scratchi found that the white dividing line on roads
>was slightly conductive, so described a way of feeding it on 75 meter
>mobile, with highly variable results.

>I always thought Wayne himself wrote it, but others disagree. Anyone
>out there know?

>Don Montgomery, K6LTS
>donrm@sr.hp.com

Scratchi was written by a ham in the Virgin Islands named Dick Spence (KV4LIV?) I am not sure of his call, but I think he was the DX editor of CQ at the time (around 1956/7). Dig up an old copy of CQ from the 50s' to verify the call. Scratchi's well known fist can still be heard during the CQ WWDX CW Contest. He moves around a lot and changes calls, but the fist is unmistakeably Scratchi :*).....

--Joel--
KC1SG

***** Explain "fist" to the No-Code kiddies out there in radioland*****

Date: 19 Sep 1993 04:35:39 GMT
From: library.ucla.edu!europa.eng.gtefsd.com!darwin.sura.net!news-feed-2.peachnet.edu!hobbes.cc.uga.edu!aisun3.ai.uga.edu!mcovingt@network.ucsd.edu
Subject: writing speed
To: info-hams@ucsd.edu

In article <27eac2INN34i@emx.cc.utexas.edu> oo7@emx.cc.utexas.edu (Derek Wills) writes:

>randy@cyphyn.radnet.com (Randy someone) says:

>

>>>HOW in blazes do people DO 20 wpm writing it down? The copy must look awful!

>

>I don't believe that you cannot write faster than 6-7 wpm unless you
>have some physical handicap, as that is one word every 8-10 seconds,
>and little kids just learning to write can go that fast.

I measured my handwriting speed years ago, and it was 18 wpm in rather neat printing (or sloppy italic calligraphy, depending on your point of view). That was a comfortable speed, without hurrying.

>when I am lecturing and write stuff on the blackboard, then start to talk
>about the stuff I wrote down, it can take a long time for most people to
>stop writing and start listening. Maybe it's just cos they are Texans

Happens here too, and even happened to me at Yale (where I was a T.A.).
I don't know what most students are doing when they take notes!

--

:- Michael A. Covington, Associate Research Scientist : *****

:- Artificial Intelligence Programs mcovingt@ai.uga.edu : *****
:- The University of Georgia phone 706 542-0358 : * * *
:- Athens, Georgia 30602-7415 U.S.A. amateur radio N4TMI : ** *** ** <><

Date: 19 Sep 1993 04:31:52 GMT
From: library.ucla.edu!agate!spool.mu.edu!darwin.sura.net!news-
feed-2.peachnet.edu!hobbes.cc.uga.edu!aisun3.ai.uga.edu!mcovingt@network.ucsd.edu
To: info-hams@ucsd.edu

References <27eac2INN34i@emx.cc.utexas.edu>,
<1993Sep18.131127.23374@ke4zv.atl.ga.us>, <wier-180993035453@192.43.199.178>ed
Subject : Re: writing speed

In article <wier-180993035453@192.43.199.178> wier@merlin.etsu.edu (Bob Wier)
writes:

>In article <1993Sep18.131127.23374@ke4zv.atl.ga.us>, gary@ke4zv.atl.ga.us
>(Gary Coffman) wrote:

>

>>> I found out something interesting the other day. I had to get an
>> important letter out that morning and found out my laser printer
>> had died. So I decided to write the letter longhand. I couldn't
>> do it. I know what the letters are supposed to look like, but I
>> couldn't make my hand do them. I could still block print, but not

>

> That's interesting. I'm mildly dyslexic (is that spelled right :-).
> I've NEVER been able to "hand write" - printing is the best I can do.
> Passed my 13 wpm with printing back in 1972. Interestingly enough I can
> type pretty reasonable speed (I tell people I can type 300 wpm, but have
> to backspace 275 of that :-)

Interesting. I'm not at all dyslexic (I've always been a fast reader
and perfect speller), and I don't do cursive, either. I gave it up as
soon as I got to college, never having liked it much. I do very nice
italic-style printing which is faster than most people's longhand, and
much more readable. I also type very fast (>70 wpm).

Was cursive a kluge that became obsolete when dip-pens disappeared?

--
:- Michael A. Covington, Associate Research Scientist : *****
:- Artificial Intelligence Programs mcovingt@ai.uga.edu : *****
:- The University of Georgia phone 706 542-0358 : * * *
:- Athens, Georgia 30602-7415 U.S.A. amateur radio N4TMI : ** *** ** <><

Date: Fri, 17 Sep 1993 19:22:12 GMT
From: news.Hawaii.Edu!uhunix3.uhcc.Hawaii.Edu!jherman@ames.arpa
To: info-hams@ucsd.edu

References <27cf77\$7d1@bigguy.eng.ufl.edu>,
<1993Sep17.141022.24473@mprgate.mpr.ca>,
<MJOHNSON.93Sep17081528@netcom5.Netcom.COM>
Subject : Re: White Noise Generator

In article <MJOHNSON.93Sep17081528@netcom5.Netcom.COM> mjohnson@netcom5.Netcom.COM
(Mark Johnson) writes:
>PAIA Electronics sells a Surf Synthesizer kit
>which is a white noise generator. They have
>
>Records sells six different recordings of the
>ocean. I bought "A Week in Hawaii: Tropical Surf"
>on Rykodisc. Very soothing.

Gee, you folks have to PAY for that sound? I get to listen to it all night
long for free on my sailboat! And I even get rocked back and forth (sometimes
not so gently though...)

Jeff NH6IL (permanent maritime mobile in the Ala Wai Harbor!)

Date: 17 Sep 1993 18:04:52 GMT
From: dog.ee.lbl.gov!agate!spool.mu.edu!caen!usenet.cis.ufl.edu!eng.ufl.edu!
helios.tcad.ee.ufl.edu!thoman@network.ucsd.edu
To: info-hams@ucsd.edu

References <willmore.748222237@tremple.gis.iastate.edu>,
<27cf77\$7d1@bigguy.eng.ufl.edu>, <CDIBp4.9IG@hermes.hrz.uni-bielefeld.de>
Subject : Re: need expert info on nicads.

In article <CDIBp4.9IG@hermes.hrz.uni-bielefeld.de>, bsieker@techfak.uni-
bielefeld.de (Bernd Sieker) writes:
|> In article <27cf77\$7d1@bigguy.eng.ufl.edu>, thoman@helios.tcad.ee.ufl.edu (Greg
Thoman) writes:
|> |>
|> |> I second the disagreement. NiCds should be fully charged before
|> |> storage and should not be stored discharged.
|>
|> So does it need recharging the cells every month as for lead-acid
|> cells? If you wouldn't, NiCad Cells discharge themselves within 100
|> days, from that on being stored discharged.

The self-discharge becomes an exponential decay process after a

while, and although the cells won't have a useful amount of charge in them, they'll not discharge completely anytime soon.

Based on observing the eventual death of long-stored NiCd's over the years, I suspect that an annual "exercise" (charge 'em up, discharge 'em, and charge 'em up again) would be beneficial. Amplification and correction, anyone?

On another note, a recent poster quoted a PowerSonic tech manual as recommending discharge before storage. I wonder if we could get a little context surrounding that quote. Is it based on battery longevity or is it based on safety (since accidental shorting of a NiCd can be dangerous)?

Greg Thoman: The opinions expressed herein are mine alone, and I am solely irresponsible for them.

Date: 17 Sep 93 10:14:22 -0600
From: dog.ee.lbl.gov!agate!howland.reston.ans.net!sol.ctr.columbia.edu!
hamblin.math.byu.edu!yvax.byu.edu!physc1.byu.edu!peterson@network.ucsd.edu
To: info-hams@ucsd.edu

References <CCzo76.IFp@fc.hp.com>, <04=z0yg@dixie.com>, <!cbztcq@dixie.com>
Subject : Re: Emergency: cellular vs ham (was Re: Yagi for Cellular Phone?)

In article <1993Sep14.160544.29507@ke4zv.atl.ga.us>, gary@ke4zv.atl.ga.us (Gary Coffman) writes:

> In article <steveuCDAw29.DL5@netcom.com> steveuC@netcom.com (Steven Wilson) writes:

>

>>Is ham radio still relevant. Still seems to be locally. That's why
>>they keep asking us to play in their planning simulations, etc. Don't
>>forget that as more advanced communications technology comes into play
>>for the general public, so goes the available technology to amateurs.

>

> There are two issues here. First I'd opine that the growth of advanced
> consumer communications technology has narrowed rather than widened the
> gap between consumer communications capabilities and amateur capabilities.
> Amateur practice really hasn't changed much from the early 60s, aside
> from packet. Meanwhile the growth of cellular, FAX, and computer communications
> among the general public has skyrocketed. I'd note that when the San Francisco
> earthquake hit, many of us turned to the computer networks for word rather
> than dialing in HF as we would have done in earlier times.

I am a relatively new ham (5 months) and this discussion has been very interesting but there seems to be something that is left out. I have been

associated with the local ARES group for the entire 5 months and feel that much of it has been very helpful to me. However, I distinctly remember one of the main justifications of the amateur radio service is to provide public service and promote international good will. As I read through this discussion it appears to me that consumer electronics have basically made the amateur radio service irrelevant (no way they can provide public service) and we are in danger of losing our spectrum if there is no better justification for it than to let a bunch of old men fiddle with 50's technology. I personally like the radio because it is a hobby (I flatly refuse to buy a cellular phone for the simple reason that it is bidirectional and I get charged for it everytime I look at it). But it is real hard to justify the allocation of a fairly large chunk of spectrum to let me fiddle around with a toy a few times a week if that fiddling doesn't have the possibility of providing some public service.

So, my real question is, if we aren't going to figure out a way to really provide either emergency communications or other public service, how are we going to justify our spectrum allocation? This is not just a rhetorical question - I feel it is an important consideration with respect to the future of amateur radio.

Bryan Peterson, kb7tew/aa
peterson@phyc1.byu.edu

Date: Fri, 17 Sep 1993 15:44:04 GMT
From: dog.ee.lbl.gov!agate!doc.ic.ac.uk!uknet!mcsun!chsun!bernina!
schaerer@network.ucsd.edu
To: info-hams@ucsd.edu

References <willmore.748222237@tremple.gis.iastate.edu>,
<27cf77\$7d1@bigguy.eng.ufl.edu>, <1993Sep17.141022.24473@mprgate.mpr.ca>
Subject : Re: White Noise Generator

Nick Bryant (bryant@mpr.ca) wrote:
: I am now looking for a simple circuit which will generate a white
: noise signal, suitable for the AUX input of a spare amplifier I own.
: Does anyone have a _proven_ circuit they would care to share?

Yes, I have a _proven_ circuit.

An easy way to realize white noise
=====

There is a very easy way to realize a white-noise-circuit.
Take a bipolar npn-transistor and a resistor. That's all.
The trick is, you must need the inverse basis-emitter-

breakdownvoltage (about 7V) as following circuit shows:

```

|-----o +15V
|
R1 = 470 k-Ohm
|
|-----> U-noise = 5 - 20 mV
|
e \ |           To amplify U-noise take a highimpedance-opamp,
b |---- BC107    like a bi-fet-type is, as example LF356, TL071.
c /| |
|
|
|-----o GND

```

With other transistor-type it can be you must change the resistor R1 between about 100k-Ohm and 1M-Ohm for best results.

So I hope I can help you. If you have more questions write to my mailbox please

Thomas

```
|-----|
| Tel + FAX:                * * *
| +41 01/632'6583          * * *
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